

TECH CENTER 1600/2900

114

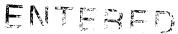
1631

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/492,709A

DATE: 08/08/2001 TIME: 14:56:17

Input Set : D:\001asubst.txt



					* ************************************
	4	<110>	APPLICANT: Zyskind, Judith)·	
	5		Ohlsen, Kari L.		
	6		Trawick, John	i	
	7		Forsyth, R. Allyn). ·)
	8		Froelich, Jamie M.	φ'	
	9		Carr, Grant J.		
	10		Yamamoto, Robert T.		
	11		Xu, H. Howard		
	_	<120>	TITLE OF INVENTION: GENES IDENTIFIED AS REQUIRED FOR	PROLIFERATION OF THE PROLIFERATION OF THE PROPERTY OF THE PROP	ON IN
	15	(120)	ESCHERICHIA COLI		
		<130>	FILE REFERENCE: ELITRA.001A		
·C>			CURRENT APPLICATION NUMBER: US/09/492,709A		
			CURRENT FILING DATE: 2000-01-27		
C/			NUMBER OF SEQ ID NOS: 485		
			SOFTWARE: FastSEQ for Windows Version 3.0		
			SEQ ID NO: 1		
			LENGTH: 159		
			TYPE: DNA		
			ORGANISM: E. Coli		
			SEQUENCE: 1		6.0
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	30		ccagca gatgaaataa cgataaccag aacaacgcct tatagcgttg ag	tttgcgag	120
	31		egttca tattgtacct ttttgattaa ccattgggg		159
			SEQ ID NO: 2		
			LENGTH: 696		
			TYPE: DNA		
			ORGANISM: E. Coli		
			FEATURE:		
			NAME/KEY: misc_feature		
			LOCATION: (1)(696) - Y		
	41	<223>	OTHER INFORMATION: $n = A, T, C \text{ or } G$		
	43	<400>	SEQUENCE: 2		
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	45	aaaga	agetga egatteaace gggatgeagt teeggeeagg egtgtgaaaa eg	cgctgccg	120
	46	gtcac	cctact caaacgtgga accgagcgat ttcgttcaga ccttctcacg cc	gtaatggt	180
	47	gggga	aagcga ccagcggatt ctttgaagtg ccgaaaaacg aaaccaaaga aaa	atggaatt	240
	48	cgtct	ttccg agcgtaaaga gacactgggt gatgtgacgc accgcattct gad	cagtgccg	300
	49	attgo	egcagg atcaggtggg gatgtattac cagcagccag ggcaacaact gge	caacctgg	360
	50		tecte egggacaata etteatgatg ggegacaace gegacaacag egg		420
W>	51	-	nctggg getttgtgee ngaagegaat etggteggte nggeaaegge ta		480
W>			cgata accaagaagg cgaatggccg aatggtctgc cctaantcgc at		540
W>			caatan ccacttcctt cnctttgtcc ccttatggca acacttaatt ta		600
W>			enceg tggetnacaa ateceegeet tttnttaaaa attteeeena an		660
			ccagt tgcccgnccc aaacactttg gncccc		696
			SEQ ID NO: 3		
			LENGTH: 681		
			TYPE: DNA		

8/8/01

RAW SEQUENCE LISTING

DATE: 08/08/2001 PATENT APPLICATION: US/09/492,709A TIME: 14:56:17

Input Set : $D:\001asubst.txt$

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	69	ccagtcggca gcgacaactt gcgttaaagt cgcaaaatta tcatctgcac tcactgcgtg	120		
	70	acgtaagcgg atggagtggc cggaaacctc atagtgaccg cccaccagtt ggcctgcatc	180		
	71	getttgtage gtaegegegg eattggeaat aagatteaga taeteagaet etteegggge	240		
	72	cttcgccage ataaaagagg aggatgctcg cgtatgcage aactgctcca gcgcaaattg	300		
	73	cageegeggt tgagtateae tgaataaagg ategtttteg teaateaaat gtggetgage	360		
	74	aaatatttcc tgatagctat cggtatcagg aaccaggtca cgccatgcaa gtttcgtaat	420		
M>	75	ggtcaaagtt gatgtttttt agtctgttgt caaagccgcn attataccng taaccggcac	480		
	76	tacagcacac gtagaaagca cccgacaata ctcctggcat gggcgttaaa gctcacagga	540		
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M>	78	attgagatcg ctatgaaata tcaacaactt ggaaaatctt gnaaagcngg ttggaaaatg	660		
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	88		120		
	89		180		
	90		240 289		
	91		209		
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		1 < 223 > OTHER INFORMATION: n = A,T,C or G			
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	105		120		
	106	6 atatggcccc ctttttcact tttatatctg tgcggtttaa tgccgggcag atcacatctc	180		
	107	7 cgaggatttt agaatggctg aaattaccgc atccctggta aaagagctgc gtgagcgtac	240		
	108		300		
	109		360		
	110		420		
	111		480		
	112		540		
	113		600		
	114		660		
	115	5 ttgctgctaa aagcgctgac gaagaactgg ttaaacacat cgttttgacc tttgttgcaa	720		

RAW SEQUENCE LISTING

DATE: 08/08/2001 PATENT APPLICATION: US/09/492,709A TIME: 14:56:17

Input Set : $D:\001asubst.txt$

	117 119	gccaagccag aattcagaga aactttccgc ttcaccggag gtcccaccca cangganccc cgattttntc agcatggtgg tcttcctncg gagtt $<\!210\!>$ SEQ ID NO: 6	780 815
		<211> LENGTH: 403	
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		<213> ORGANISM: E. Coli	
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	125		60
	126	* * * * * * * * * * * * * * * * * * * *	120
	127		180 240
	128		300
	129 130		360
	131		402
		<210> SEQ ID NO: 7	403 tk
		<211> LENGTH: 149	
		<212> TYPE: DNA	
		<213> ORGANISM: E. Coli	
		<400> SEQUENCE: 7	
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	141		149
	143	<210> SEQ ID NO: 8	
	144	<211> LENGTH: 742	
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	146	<213> ORGANISM: E. Coli	
	148	<220> FEATURE:	
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		$\langle 223 \rangle$ OTHER INFORMATION: $n = A, T, C$ or G	
		<400> SEQUENCE: 8	
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	155		120
	156		180
	157		240
	158	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	300
	159		360
	160		420
W>	161		480
W>	163		540 600
	164	acagcagcag caagcggaaa caccgaattt ttcttccatt gcagagatca gttctacaac cgtccattac agacatagct gcaactgctt caatgatttt gatctttagt ggatagacat	660
W>			720
W>			742
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		<211> LENGTH: 421	
		<212> TYPE: DNA	
		<213> ORGANISM: E. Coli	
		<400> SEQUENCE: 9	

RAW SEQUENCE LISTING DATE: 08/08/2001 PATENT APPLICATION: US/09/492,709A TIME: 14:56:17

Input Set : D:\001asubst.txt

	174 175 176 177 178	5 aaagtcacca gccatcagcc tgatttetca ggctgcaacc ggaa 6 cttcaacttc agcgccagct tettecagag etttttteag tget 7 teaegeette tttcagagea geeggtgeag attetaccag gtet 8 ceaggccagt tgegeeacgt actgetttga taacageaac tttg	reggttg gettatttaa 120 Letetgeg tegtetttge 180 Lettaget tettteagae 240 Lettageg ceageagett 300
	179 180	O ctacagcage ageageggaa acaeegaatt tttetteeat tgea	gagate agttetacaa 420
	181 183	1 c 3 <210> SEQ ID NO: 10	421
		4 <211> LENGTH: 126 5 <212> TYPE: DNA	
		6 <213> ORGANISM: E. Coli	
		8 <400> SEQUENCE: 10	
		9 agagettitt teagtgette tgegtegtet tigeteaege ette	
		O gcagattota ccaggtottt agottottto agacccaggo cagt	
		1 ttgata 3 <210> SEQ ID NO: 11	126
		4 <211> LENGTH: 262	
		5 <212> TYPE: DNA	
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		8 <220> FEATURE: /	
		9 <221> NAME/KEY: misc_feature	
		0 <222> LOCATION: (1)(262) 1 <223> OTHER INFORMATION: n = A,T,C or &	
		3 <400> SEQUENCE: 11	
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M>		5 tttttcagtg cttctgcgtc gtctttgctc acgccttctt tcag	
		f totaccaggt offtagotto titcagacco aggocagitg ogco	
	207		
	208	B gcagettcaa eegggeeage ag O <210> SEQ ID NO: 12	~ 262
		1 <211> LENGTH: 202	
		2 <212> TYPE: DNA	
		3 <213> ORGANISM: E. Coli	
		5 <220> FEATURE:	
		5 <221> NAME/KEY: misc_feature /	
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		0 <400> SEQUENCE: 12	
	221		aacgct gtaccgcttt 60
M>			
M>		grand control of the	
	224	l cggaccggcg atcatcaggt ca 5 <210> SEQ ID NO: 13	202
		7 <211> LENGTH: 261	
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RAW SEQUENCE LISTING DATE: 08/08/2001 PATENT APPLICATION: US/09/492,709A TIME: 14:56:17

Input Set : D:\001asubst.txt

Output Set: N:\CRF3\08082001\I492709A.raw

233 234 235 236	cttttgcccg gcatgacgcc gggctttttt gcaaacttct cgccatcaaa tagcccctga agagaaagaa acgccatctg aataaacggc gcggctttca aggcgtcaat t	ctggttagtt	ttagcgcggg	gatcactggc	120 180 240 261
	<210> SEQ ID NO: 14				
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245	tttttattat tatggggaag gtgttattta				120
246	actogggaat tagtataago agogogagaa		-		180
247	taatactatt taaatattat tttgagcata				224
	<210> SEQ ID NO: 15	- ,	y y		
	<211> LENGTH: 232				
251	<212> TYPE: DNA				
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255	aatteeette tttttttegt caaeggtgte				60
256	tgctgatttt tattattatg gggaaggtgt				120
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	<213> ORGANISM: E. Coli				
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267	cctcgggtac ttatgctgat ttttattatt				120
268	tatgccgtaa cgacaatgaa ctcgggaatt		-		180
269	gtgcaaatgc taatttaatt aatactattt	aa			212
271	<210> SEQ ID NO: 17				
	<211> LENGTH: 433				
272					
	<212> TYPE: DNA				
274	<213> ORGANISM: E. Coli				
274 276	<213> ORGANISM: E. Coli <400> SEQUENCE: 17				6.0
274 276 277	<213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa				60
274 276 277 278	<213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa caggccataa atgccaccag aattatcgtc	aaccaaccaa	ttgctgaaac	gccaagcagc	120
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274 276 277 278 279 280	<213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa caggccataa atgccaccag aattatcgtc agcggggcgg agagctgttt cagttcggcg cacagcaaca tgatgcctct gtacaaccct	aaccaaccaa ggtaaccctt aacgtgccaa	ttgctgaaac caatccattt gggtggcaac	gccaagcagc gccgccagtc aatggcaggg	120 180 240
274 276 277 278 279 280 281	<213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa caggccataa atgccaccag aattatcgtc agcggggcgg agagctgttt cagttcggcg cacagcaaca tgatgcctct gtacaaccct atctttagcc acgcgaccag gacaccgttg	aaccaaccaa ggtaaccctt aacgtgccaa aaaaatcccg	ttgctgaaac caatccattt gggtggcaac cgagcaaacc	gccaagcagc gccgccagtc aatggcaggg aagcagtaaa	120 180 240 300
274 276 277 278 279 280	<213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa caggccataa atgccaccag aattatcgtc agcggggcgg agagctgttt cagttcggcg cacagcaaca tgatgcctct gtacaaccct	aaccaaccaa ggtaaccett aacgtgccaa aaaaatcccg cctgcgttca	ttgctgaaac caatccattt gggtggcaac cgagcaaacc gtaacatccc	gccaagcagc gccgccagtc aatggcaggg aagcagtaaa caacagcacc	120 180 240
274 276 277 278 279 280 281 282 283 284	<213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa caggccataa atgccaccag aattatcgtc agcggggcgg agagctgttt cagttcggcg cacagcaaca tgatgcctct gtacaaccct atctttagcc acgcgaccag gacaccgttg gtcgcgacac aagcaacagg tagtgaatat gcgcacattc cggtaatcga acccactgaa gtcgcgccca ttg	aaccaaccaa ggtaaccett aacgtgccaa aaaaatcccg cctgcgttca	ttgctgaaac caatccattt gggtggcaac cgagcaaacc gtaacatccc	gccaagcagc gccgccagtc aatggcaggg aagcagtaaa caacagcacc	120 180 240 300 360
274 276 277 278 279 280 281 282 283 284 286	<pre><213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa caggccataa atgccaccag aattatcgtc agcggggcgg agagctgttt cagttcggcg cacagcaaca tgatgcctct gtacaaccct atctttagcc acgcgaccag gacaccgttg gtcgcgacac aagcaacagg tagtgaatat gcgcacattc cggtaatcga acccactgaa gtcgcgccca ttg <210> SEQ ID NO: 18</pre>	aaccaaccaa ggtaaccett aacgtgccaa aaaaatcccg cctgcgttca	ttgctgaaac caatccattt gggtggcaac cgagcaaacc gtaacatccc	gccaagcagc gccgccagtc aatggcaggg aagcagtaaa caacagcacc	120 180 240 300 360 420
274 276 277 278 279 280 281 282 283 284 286 287	<pre><213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa caggccataa atgccaccag aattatcgtc agcggggcgg agagctgttt cagttcggcg cacagcaaca tgatgcctct gtacaaccct atctttagcc acgcgaccag gacaccgttg gtcgcgacac aagcaacagg tagtgaatat gcgcacattc cggtaatcga acccactgaa gtcgcgccca ttg <210> SEQ ID NO: 18 <211> LENGTH: 658</pre>	aaccaaccaa ggtaaccett aacgtgccaa aaaaatcccg cctgcgttca	ttgctgaaac caatccattt gggtggcaac cgagcaaacc gtaacatccc	gccaagcagc gccgccagtc aatggcaggg aagcagtaaa caacagcacc	120 180 240 300 360 420
274 276 277 278 279 280 281 282 283 284 286 287 288	<pre><213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa caggccataa atgccaccag aattatcgtc agcggggcgg agagctgttt cagttcggcg cacagcaaca tgatgcctct gtacaaccct atctttagcc acgcgaccag gacaccgttg gtcgcgacac aagcaacagg tagtgaatat gcgcacattc cggtaatcga acccactgaa gtcgcgccca ttg <210> SEQ ID NO: 18 <211> LENGTH: 658 <212> TYPE: DNA</pre>	aaccaaccaa ggtaaccett aacgtgccaa aaaaatcccg cctgcgttca	ttgctgaaac caatccattt gggtggcaac cgagcaaacc gtaacatccc	gccaagcagc gccgccagtc aatggcaggg aagcagtaaa caacagcacc	120 180 240 300 360 420
274 276 277 278 279 280 281 282 283 284 286 287 288 289	<pre><213> ORGANISM: E. Coli <400> SEQUENCE: 17 ccttgtaaat tatcgcccgt ggcataaaaa caggccataa atgccaccag aattatcgtc agcggggcgg agagctgttt cagttcggcg cacagcaaca tgatgcctct gtacaaccct atctttagcc acgcgaccag gacaccgttg gtcgcgacac aagcaacagg tagtgaatat gcgcacattc cggtaatcga acccactgaa gtcgcgccca ttg <210> SEQ ID NO: 18 <211> LENGTH: 658</pre>	aaccaaccaa ggtaaccett aacgtgccaa aaaaatcccg cctgcgttca	ttgctgaaac caatccattt gggtggcaac cgagcaaacc gtaacatccc	gccaagcagc gccgccagtc aatggcaggg aagcagtaaa caacagcacc	120 180 240 300 360 420

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 08/08/2001 PATENT APPLICATION: US/09/492,709A TIME: 14:56:18

Input Set : D:\001asubst.txt

```
L:19 M:270 C: Current Application Number differs, Replaced Current Application No
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
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L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
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L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:714 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
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VERIFICATION SUMMARY

DATE: 08/08/2001 PATENT APPLICATION: US/09/492,709A TIME: 14:56:18

Input Set : D:\001asubst.txt

Output Set: N:\CRF3\08082001\I492709A.raw

L:752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 L:774 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 $L\!:\!775$ $M\!:\!341$ $W\!:$ (46) "n" or "Xaa" used, for SEQ ID#:45 L:12508 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:403 \odot $\sqrt{}$ L:12519 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:404 o pe